



ABP Overview

Authorization: Chapter 233 of the Acts of 2008 Signed August 4, 2008





ABP GOALS

Program Goals:

- Improve the Condition of the Commonwealth's Bridges
- Stimulate Economic Development and Job Creation
- Save Money by Completing Projects Sooner
- Complete Projects Efficiently and Innovatively
- Provide Transparency and Accountability
- Provide Access & Opportunity for MWDBE



ABP Size and Scope

- MassHighway:
 - \$2.078 Billion
 - Rehabilitate or replace 191 site specific bridges
 - Preserve over 300 bridges
- DCR
 - \$906 Million
 - Rehabilitate or replace 29 site specific bridges
 - Preserve 50 bridges

Total Program: \$2,984,000,000



ABP Governance

 Oversight Council- oversee and coordinate program, provide project controls, transparency and accountability

Members

- Chair appointed by Governor
- Secretary of Administration & Finance or designee
- Secretary of Transportation and Public Works
- Secretary of Energy and Environmental Affairs
- Commissioner of Department of Capital Asset Management
- Commissioner of MassHighway
- Commissioner of Department of Conservation and Recreation



How Did We Get Here?

Massachusetts' bridge inventory tells the story:

- 4676 bridges: vehicular & pedestrian
- 543 were structurally deficient when bill filed
- Decades of reduced maintenance and preservation
- Bridges typically designed to last 50 years
 60% of bridges are over 45 years old





Determining Bridge Conditions

Structurally Deficient equates to "Poor" condition:

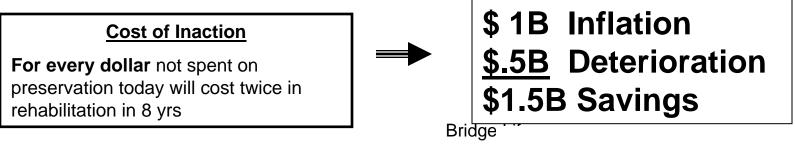
1. Deck (wearing surface, joints): 13%

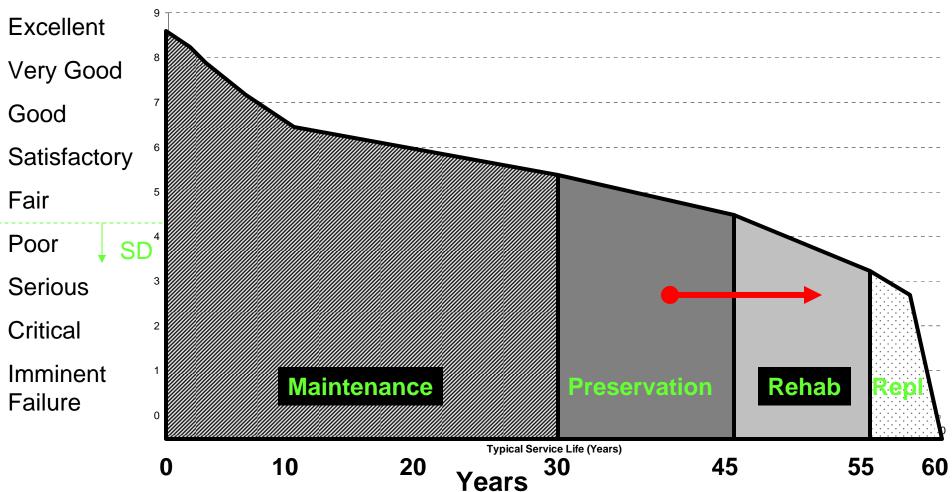
2. Superstructure (beams, welds): 25%

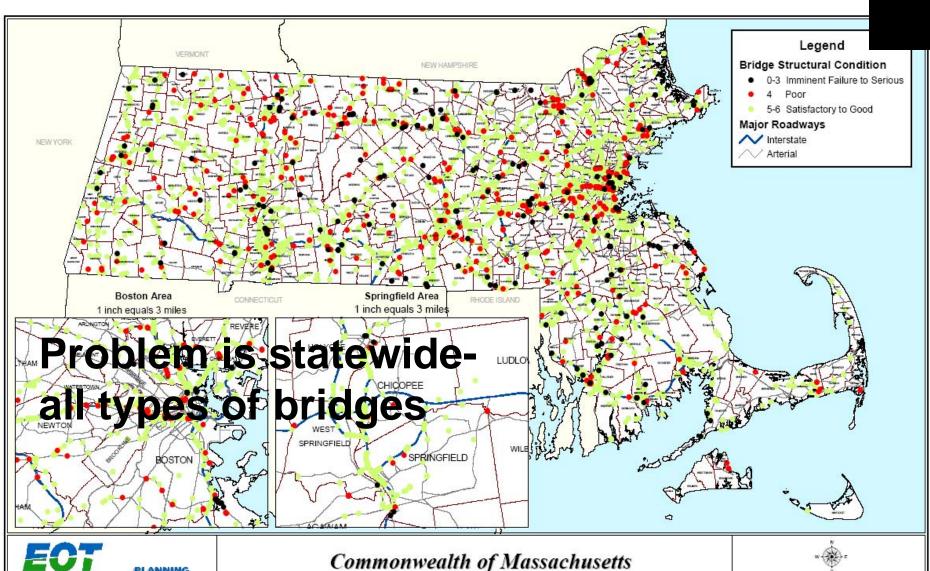
3. Substructure (abutments): 22%

Combination of 2 or more: 40%



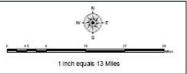






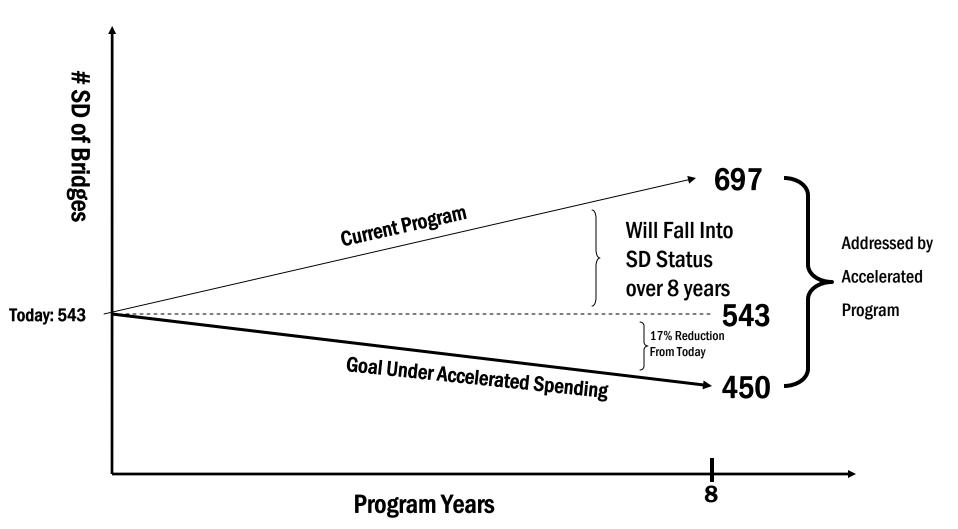
MASSACHUSETTS EXECUTIVE OFFICE OF TRANSPORTATION

PLANNING The of Transportation Planning Commonwealth of Massachusetts
Bridge Condition Ratings





Goal: Reduce by at least 250 the number of SD bridges





<u>Planning</u>

Learn from other multi-billion dollar projects around the country:

- MWRA: Boston Harbor Project (Treatment Plant)
- Missouri: Safe and Sound Bridge Program
- Illinois: Toll way Congestion Relief Program
- Oregon: Transportation Investment Bridge Program
- Central Artery Project
- FHWA national workshop last month



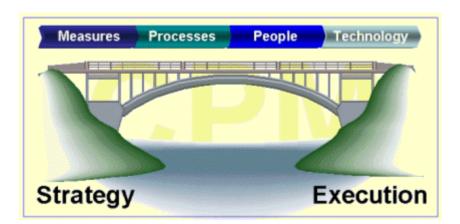
The Strategy

- → Prioritize work: most cost effective, "procurement-friendly" "shovel ready", statewide, mega-projects, preserve, repair, replace
- → Innovative contracting: design-build, incentives, bundling
- → <u>Accelerated construction</u>: standardize designs, prefab, single phase construction,
- → Mobility impacts: corridor-wide analysis
- → **Programmatic Agreements**: Permitting, state & federal agencies
- → → Project Controls: system-wide emphasis on measuring budget and schedule, risk management



The Strategy

- → <u>Maximize business participation</u>: outreach to small companies, minority, and women owned businesses
- → <u>Embedded Management Organization</u>: all bridgework responsibility of Secretary of Transportation
- → Transparency of Program: robust reporting and benchmarking of milestones





On-going Considerations

- Vehicular traffic-Commuters
- Bicycles and Pedestrians
- Program sequencing
- Noise
- Cash flow
- Abutter impacts
- Community Involvement
- Strategic Partners: Labor, CIM, ACEC, FHWA





Progress to Date

- 50 Projects Advertised totaling \$284 million
 - 44 MassHighway projects
 - \$207 Million
 - 6 DCR projects
 - \$77 Million

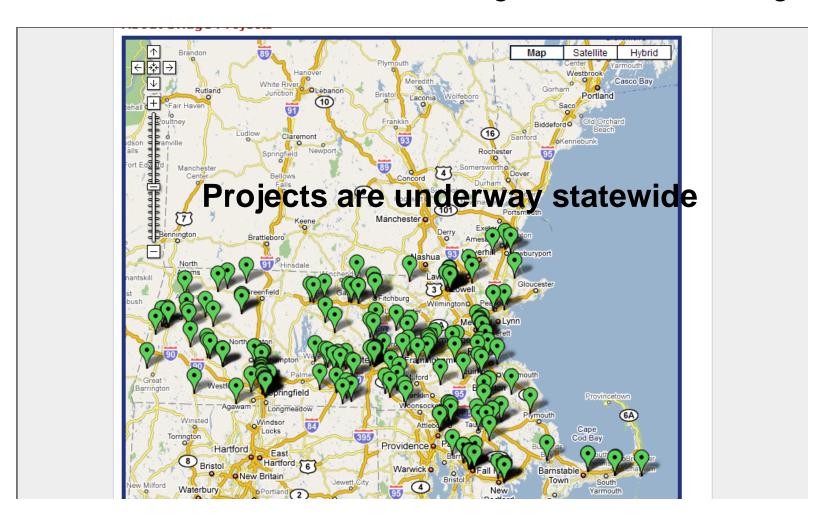






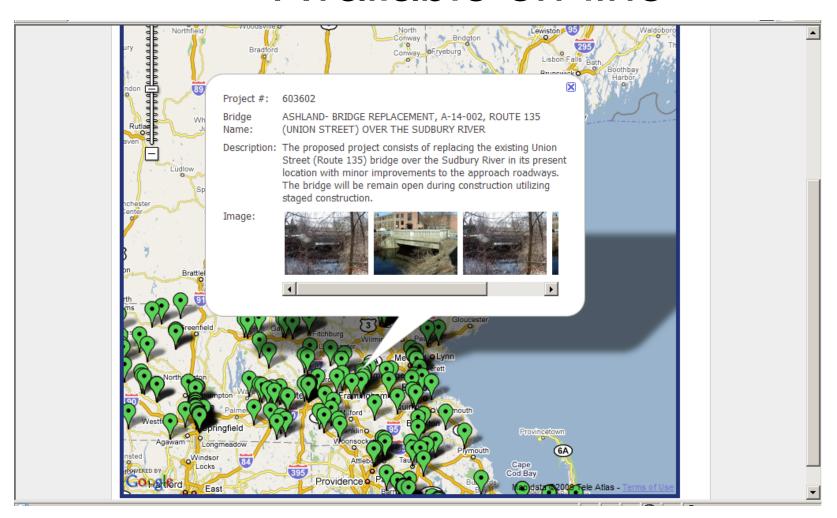
Interactive Project Map

www.mass.gov/acceleratedbridges





Daily Project Updates Available on-line





Examples of Bridge Work Underway

- Boston/Cambridge- Craigie Dam Bridge & Drawbridge
- Fall River- I-95 over Taunton River
- Middleborough-Raynham I-495
- Springfield- Longhill Street & Rte 5
- Attleboro- I-95 & I-295
- Westborough- Lyons Street over Rte 9
- Peabody- I-95 over Rte 128
- Statewide preservation contracts



Other Progress



- MassHighway Team in place:
 - Shoukry Elnahal, ABP Director
 - Walter Heller, Director of Project Delivery
 - Tom Donald, Director of Project Design
 - 155 staff in place; 40 in process; Year 1 80%,
 Year 2 postings starting soon
- DCR Team building in close coordination with MassHighway



Other Progress

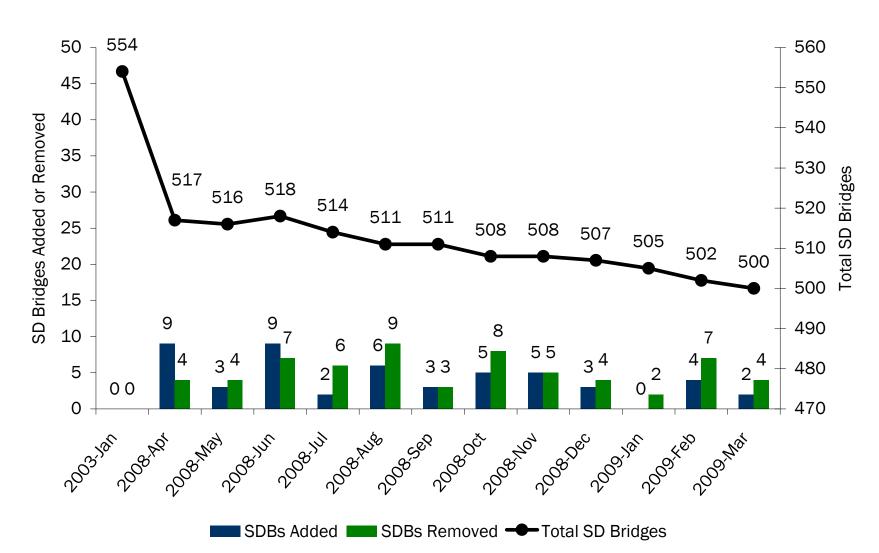


- Program-wide agreements with permitting authorities.
- New Equitable Business Opportunity software allows on-line reporting of certified payrolls
- MWDBE participation ahead of the 14% goal.
 Currently at 17% of total contracts committed to date.
- Thousands of jobs created (14,000 direct, indirect and induced jobs per \$ billion- national measure)



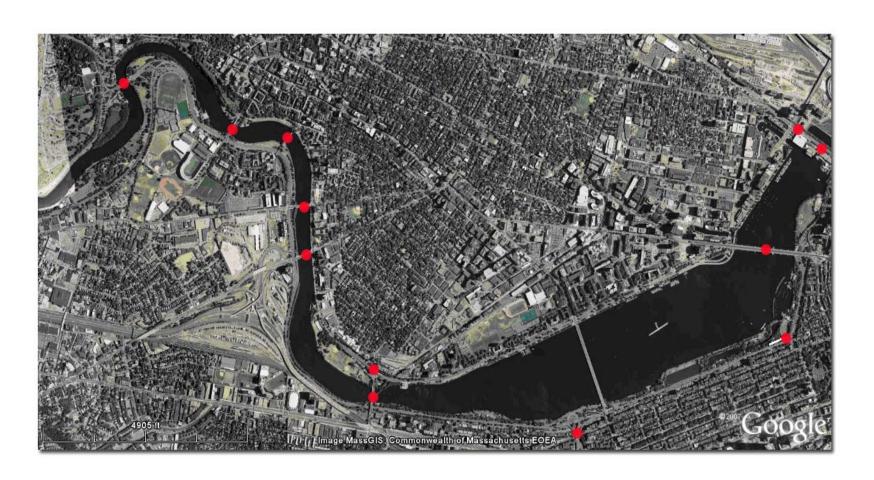
Structurally Deficient Trend Reversing

MassHighway - Structurally Deficient Bridges





High Risk Projects: Mega-projects, Charles River Basin





Thank You! Questions? www.mass.gov/acceleratedbridges





